

1834  
032904Please type a plus sign (+) inside this box 

Approved for use through 10/31/2002. OMB 0651-0032

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

# UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

|                        |  |
|------------------------|--|
| Attorney Docket No.    | TI-37147   |
| First Inventor         | Xiaodong Cui   |
| Title                  | Sequential Variance Adaptation for Reducing Signal Mismatching |
| Express Mail Label No. | ER052971712US  |

U.S. PTO  
21  
10/8/11 15:56

032904

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents

**ADDRESS TO:**

Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA, 22313-1450

- |   |   |
|---|---|
| 1. <input checked="" type="checkbox"/> Fee Transmittal Form (e.g., PTO/SB/17)<br><i>(Submit an original, and a duplicate for fee processing)</i>                                | 7. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)   |
| 2. <input type="checkbox"/> Applicant claims small entity status.<br>See 37 CFR 1.27.   | 8. <input type="checkbox"/> Nucleotide and/or Amino Acid Sequence Submission<br><i>(if applicable, all necessary)</i>                             |
| 3. <input checked="" type="checkbox"/> Specification<br><i>(preferred arrangement set forth below)</i>  | a. <input type="checkbox"/> Computer Readable Form (CRF)  |
| - Descriptive title of the Invention  | b. <input type="checkbox"/> Specification Sequence Listing on:  |
| - Cross Reference to Related Applications   | i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or   |
| - Statement Regarding Fed sponsored R & D   | ii. <input type="checkbox"/> paper  |
| - Reference to sequence listing, a table, or a computer program listing appendix  | c. <input type="checkbox"/> Statements verifying identity of above copies   |
| - Background of the Invention   |   |
| - Brief Summary of the Invention  |   |
| - Brief Description of the Drawings (if filed)  |   |
| - Detailed Description  |   |
| - Claim(s)  |   |
| - Abstract of the Disclosure  |   |
| 4. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113)   | [ Total Sheets 1 ]  |
| 5. Oath or Declaration <input type="checkbox"/> unsigned  | [ Total Pages 1 ]   |
| a. <input checked="" type="checkbox"/> Newly Executed (original or copy)  | 9. <input type="checkbox"/> Assignment Papers (cover sheet & documents(s))  |
| b. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63(d))<br><i>(for continuation/divisional with Box 18 completed)</i>  | 10. <input type="checkbox"/> 37 CFR 3.73(b) Statement<br><i>(when there is an assignee)</i> <input checked="" type="checkbox"/> Power of Attorney |
| i. <input type="checkbox"/> <b>DELETION OF INVENTOR(S)</b><br>Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b). | 11. <input type="checkbox"/> English Translation Document <i>(if applicable)</i>  |
| 6. <input type="checkbox"/> Application Data Sheet. See 37 CFR 1.76   | 12. <input type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 <input type="checkbox"/> Copies of IDS Citations                     |
|   | 13. <input type="checkbox"/> Preliminary Amendment  |
|   | 14. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503)<br><i>(Should be specifically itemized)</i>                            |
|   | 15. <input type="checkbox"/> Certified Copy of Priority Document(s)<br><i>(if foreign priority is claimed)</i>                                    |
|   | 16. <input type="checkbox"/> Request and Certification under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.  |
|   | 17. <input type="checkbox"/> Other:   |

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

 Continuation     Divisional     Continuation-in-part (CIP)

of prior application No: \_\_\_\_\_ / \_\_\_\_\_

Group / Art Unit: \_\_\_\_\_

Prior application information: Examiner \_\_\_\_\_  
For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.**19. CORRESPONDENCE ADDRESS**

|  |  |  |
|--|--|--|
| <input type="checkbox"/> Customer Number or Bar Code Label | 23494<br>(Insert Customer No. or Attach bar code label here) | <input checked="" type="checkbox"/> Correspondence address below |
|--|--|--|

NAME **Texas Instruments Incorporated**

ADDRESS

CITY

STATE

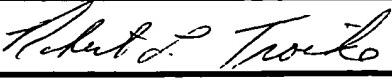
TX

ZIP CODE

COUNTRY

TELEPHONE

FAX

Name (Print/Type) **Robert L. Troike** Registration No. (Attorney/Agent) **Reg. No. 24,183**Signature 

Date

March 29, 2004

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**FEE TRANSMITTAL**  
**for FY 2003**

Express Mailing Label No.: ER 052971712US

TOTAL AMOUNT OF PAYMENT (\$ 770.00)

| Complete If Known    |              |
|----------------------|--------------|
| Application Number   | TBD          |
| Filing Date          | Herewith     |
| First Named Inventor | Xiaodong Cui |
| Examiner Name        | TBD          |
| Group / Art Unit     | TBD          |
| Attorney Docket No.  | TI-37147     |

**METHOD OF PAYMENT**

1.  The Commissioner is hereby authorized to charge to the following Deposit Account.  
 Deposit Account Number **20-0668**

Deposit Account Name **Texas Instruments Incorporated**

Charge any additional fee required or credit any overpayment       Charge all indicated fees and any additional fee required or credit any overpayment

2.  Payment Enclosed:
 Check     Money Order     Other
 **FEES CALCULATION****1. BASIC FILING FEE**

| Large Fee Code | Entity Fee (\$) | Small Fee Code | Entity Fee (\$) | Fee Description        | Fee Paid       |
|----------------|-----------------|----------------|-----------------|------------------------|----------------|
| 1001           | 750             | 2001           | 370             | Utility filing fee     | <b>\$770</b>   |
| 1002           | 330             | 2002           | 165             | Design filing fee      | \$             |
| 1003           | 510             | 2003           | 255             | Plant filing fee       | \$             |
| 1004           | 740             | 2004           | 370             | Reissue filing fee     | \$             |
| 1005           | 160             | 2005           | 80              | Provisional filing fee | \$             |
| SUBTOTAL (1)   |                 |                |                 |                        | <b>(\$770)</b> |

**2. EXTRA CLAIM FEES**

| Total Claims       | 9 | Extra Claims |   | Fee from below | Fee Paid |   |   |
|--------------------|---|--------------|---|----------------|----------|---|---|
|                    |   | -20**=       | 0 | x              | 18       | = | 0 |
| Independent Claims | 1 | -3** =       | 0 | x              | 86       | = | 0 |
| Multiple Dependent |   |              |   |                | 290      | = |   |

\*\*or number previously paid, if greater; For Reissue, see below

| Large Fee Code | Entity Fee (\$) | Small Fee Code | Entity Fee (\$) | Fee Description   |
|----------------|-----------------|----------------|-----------------|---|
| 1202           | 18              | 2202           | 9               | Claims in excess of 20                                    |
| 1201           | 84              | 2201           | 42              | Independent Claims in excess of 3                         |
| 1203           | 280             | 2203           | 140             | Multiple dependent claims in excess of 3                  |
| 1204           | 84              | 2204           | 42              | **Reissue independent claims over original patent         |
| 1205           | 18              | 2205           | 9               | **Reissue claims in excess of 20 and over original patent |
| SUBTOTAL (2)   |                 |                |                 | <b>(\$0)</b>  |

**3. ADDITIONAL FEES**

| Large Fee Code | Entity Fee (\$) | Small Fee Code | Entity Fee (\$) | Fee Description   | Fee Paid |
|----------------|-----------------|----------------|-----------------|---|----------|
| 1051           | 130             | 2051           | 65              | Surcharge - late filing fee   |          |
| 1052           | 50              | 2052           | 25              | Surcharge - late provisional filing fee or cover sheet                    |          |
| 1053           | 130             | 1053           | 130             | Non-English specification   |          |
| 1812           | 2,520           | 1812           | 2,520           | For filing a request for reexamination                                    |          |
| 1804           | 920*            | 1804           | 920*            | Requesting publication of SIR prior to Examiner action                    |          |
| 1805           | 1,840*          | 1805           | 1,840*          | Requesting publication of SIR after Examiner action                       |          |
| 1251           | 110             | 2251           | 55              | Extension for reply within first month                                    |          |
| 1252           | 400             | 2252           | 200             | Extension of time within second month                                     |          |
| 1253           | 920             | 2253           | 460             | Extension of time within third month                                      |          |
| 1254           | 1,440           | 2254           | 720             | Extension of time within fourth month                                     |          |
| 1255           | 1,960           | 2255           | 980             | Extension of time within fifth month                                      |          |
| 1401           | 320             | 2401           | 160             | Notice of Appeal  |          |
| 1402           | 320             | 2402           | 160             | Filing a brief in support of an appeal                                    |          |
| 1403           | 280             | 2403           | 140             | Request for oral hearing  |          |
| 1451           | 1,510           | 1451           | 1,510           | Petition to institute a public use proceeding                             |          |
| 1452           | 110             | 2452           | 55              | Petition to revive - unavoidable  |          |
| 1453           | 1,280           | 2453           | 640             | Petition to revive - unintentional  |          |
| 1501           | 1,280           | 2501           | 640             | Utility issue fee (or reissue)  |          |
| 1502           | 460             | 2502           | 230             | Design issue fee  |          |
| 1503           | 620             | 2503           | 310             | Plant issue fee   |          |
| 1460           | 130             | 1460           | 130             | Petitions to the Commissioner   |          |
| 1801           | 740             | 2801           | 370             | Request for Continued Examination (RCE)                                   |          |
| 1806           | 180             | 1806           | 180             | Submission of Information Disclosure Stmt.                                |          |
| 8021           | 40              | 8021           | 40              | Recording each patent assignment per property (time number of properties) |          |
| 1809           | 740             | 2809           | 370             | Filing a submission after final rejection (37 CFR 1.129(a))               |          |
| 1810           | 740             | 2801           | 370             | For each additional invention to be examined (37 CFR 1.129(b))            |          |

Other fee (specify) \_\_\_\_\_

Other fee (specify) \_\_\_\_\_

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3)

**0**

Complete (if applicable)

| SUBMITTED BY          | Robert L. Troike        | Reg. Number | 24,183                  |
|-----------------------|-------------------------|-------------|-------------------------|
| Typed or Printed Name |                         |             |                         |
| Signature             | <i>Robert L. Troike</i> | 3/29/04     | Deposit Account User ID |